# RAW SEQUENCE LISTING
# ERROR REPORT

(#6)

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: _10/538, 129_

Source: _PCT_

Date Processed by STIC: _06/16/2005_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1)  INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
    APPLICANT, WITH A NOTICE TO COMPLY or,
2)  TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
    NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221


TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER
VERSION 4.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
    http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm


Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission
   User Manual - ePAVE**)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
   U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby,
   Room 1B03, Arlington, VA 22202

Revised 05/17/04

## Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: _10/538, 12-9_ |
|---|---|---|

1____Wrapped Nucleics
Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2____Invalid Line Length — The rules require that a line **not exceed 72** characters in length. This includes white spaces.

3____Misaligned Amino Numbering — The numbering under each $5^{th}$ amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4____Non-ASCII — The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5____Variable Length — Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7____Skipped Sequences (OLD RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)      SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences (NEW RULES) — Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10____Invalid <213> Response — Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11____Use of <220> — Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12____PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____Misuse of n/Xaa — "n" can **only** represent a single <u>nucleotide</u>; "Xaa" can **only** represent a single <u>amino acid</u>

PCT

```
RAW SEQUENCE LISTING                   DATE: 06/16/2005
PATENT APPLICATION:  US/10/538,129     TIME: 10:23:26

Input Set : A:\PG5044 seq list.txt
Output Set: N:\CRF4\06162005\J538129.raw
```

```
        4 <110> APPLICANT: Catchpole, Ian
        6 <120> TITLE OF INVENTION: Vaccine
        8 <130> FILE REFERENCE: PG5044
C-->   10 <140> CURRENT APPLICATION NUMBER: US/10/538,129
C-->   11 <141> CURRENT FILING DATE: 2005-06-06
       13 <150> PRIOR APPLICATION NUMBER: GB 0228540.1
       14 <151> PRIOR FILING DATE: 2002-12-06
       16 <160> NUMBER OF SEQ ID NOS: 21
       18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
       20 <210> SEQ ID NO: 1
       21 <211> LENGTH: 20
       22 <212> TYPE: DNA
       23 <213> ORGANISM: Artificial Sequence
       25 <220> FEATURE:
       26 <223> OTHER INFORMATION: Artificial sequence
       28 <400> SEQUENCE: 1
       29 tccatgacgt tcctgacgtt
       31 <210> SEQ ID NO: 2
       32 <211> LENGTH: 14
       33 <212> TYPE: DNA
       34 <213> ORGANISM: Artificial Sequence
       36 <220> FEATURE:
       37 <223> OTHER INFORMATION: Artificial sequence
       39 <400> SEQUENCE: 2
       40 ggaaggaagg aagg                                          14
       42 <210> SEQ ID NO: 3
       43 <211> LENGTH: 34
       44 <212> TYPE: DNA
       45 <213> ORGANISM: Artificial Sequence
       47 <220> FEATURE:
       48 <223> OTHER INFORMATION: Artificial sequence
       50 <400> SEQUENCE: 3
       51 tccatgacgt tcctgacgtt ggaaggaagg aagg                     34
       53 <210> SEQ ID NO: 4
       54 <211> LENGTH: 20
       55 <212> TYPE: DNA
       56 <213> ORGANISM: Artificial Sequence
       58 <220> FEATURE:
       59 <223> OTHER INFORMATION: Artificial sequence
       61 <400> SEQUENCE: 4
       62 tccatgacgt tcctgacgtt                                     20
       64 <210> SEQ ID NO: 5
       65 <211> LENGTH: 18
```

*Does Not Comply*
*Corrected Diskette Needed*

*(pg 1-4)*

*What is the genetic source of Material.*

*Invalid Response*
*See Item # 11 in Summary Sheet.*

*Same Error*

*Same Error*

*Same Error*

**RAW SEQUENCE LISTING**
**PATENT APPLICATION:** US/10/538,129

DATE: 06/16/2005
TIME: 10:23:26

Input Set : **A:\PG5044 seq list.txt**
Output Set: **N:\CRF4\06162005\J538129.raw**

```
66  <212> TYPE: DNA
67  <213> ORGANISM: Artificial Sequence
69  <220> FEATURE:
70  <223> OTHER INFORMATION: Artificial sequence          → Same Errors
72  <400> SEQUENCE: 5
73  tctcccagcg tgcgccat                                          18
75  <210> SEQ ID NO: 6
76  <211> LENGTH: 30
77  <212> TYPE: DNA
78  <213> ORGANISM: Artificial Sequence
80  <220> FEATURE:
81  <223> OTHER INFORMATION: Artificial sequence
83  <400> SEQUENCE: 6
84  accgatgacg tcgccggtga cggcaccacg                        30
86  <210> SEQ ID NO: 7
87  <211> LENGTH: 20
88  <212> TYPE: DNA
89  <213> ORGANISM: Artificial Sequence
91  <220> FEATURE:
92  <223> OTHER INFORMATION: Artificial sequence
94  <400> SEQUENCE: 7
95  tccatgacgt tcctgatgct                                   20
97  <210> SEQ ID NO: 8
98  <211> LENGTH: 13
99  <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Artificial sequence
105 <400> SEQUENCE: 8
106 ctctctctct ctc                                         13
108 <210> SEQ ID NO: 9
109 <211> LENGTH: 14
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Artificial sequence
116 <400> SEQUENCE: 9
117 ccttccttcc ttcc                                        14
119 <210> SEQ ID NO: 10
120 <211> LENGTH: 13
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Artificial sequence
127 <400> SEQUENCE: 10
128 gagagagaga gag                                         13
130 <210> SEQ ID NO: 11
131 <211> LENGTH: 11
132 <212> TYPE: DNA
```

RAW SEQUENCE LISTING                    DATE: 06/16/2005
PATENT APPLICATION:  US/10/538,129      TIME: 10:23:26

Input Set : **A:\PG5044 seq list.txt**
Output Set: **N:\CRF4\06162005\J538129.raw**

```
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Artificial sequence
138 <400> SEQUENCE: 11
139 ctctctctct c                                        11
141 <210> SEQ ID NO: 12
142 <211> LENGTH: 18
143 <212> TYPE: DNA
144 <213> ORGANISM: Artificial Sequence
146 <220> FEATURE:
147 <223> OTHER INFORMATION: Artificial sequence
149 <400> SEQUENCE: 12
150 ctctctctcc tctctctc                                 18
152 <210> SEQ ID NO: 13
153 <211> LENGTH: 11
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Artificial sequence
160 <400> SEQUENCE: 13
161 ctctctctct c                                        11
163 <210> SEQ ID NO: 14
164 <211> LENGTH: 34
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
168 <220> FEATURE:
169 <223> OTHER INFORMATION: Artificial sequence
171 <400> SEQUENCE: 14
172 tccatgacgt tcctgacgtt tgagagagag agag                34
174 <210> SEQ ID NO: 15
175 <211> LENGTH: 34
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Artificial sequence
182 <400> SEQUENCE: 15
183 tccatgagct tcctgagtct tgagagagag agag                34
185 <210> SEQ ID NO: 16
186 <211> LENGTH: 13
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Artificial sequence
193 <400> SEQUENCE: 16
194 gagagagaga gag                                       13
196 <210> SEQ ID NO: 17
197 <211> LENGTH: 20
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
```

*same errors*

```
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Artificial sequence
204 <400> SEQUENCE: 17
205 tccatgagct tcctgagtct                                    20
207 <210> SEQ ID NO: 18
208 <211> LENGTH: 35
209 <212> TYPE: DNA
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Artificial sequence
215 <400> SEQUENCE: 18
216 tccatgacgt tcctgacgtt tggaaggaag gaagg                    35
218 <210> SEQ ID NO: 19
219 <211> LENGTH: 35
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Artificial sequence
226 <400> SEQUENCE: 19
227 tccatgagct tcctgagtct tggaaggaag gaagg                    35
229 <210> SEQ ID NO: 20
230 <211> LENGTH: 35
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Artificial sequence
237 <400> SEQUENCE: 20
238 aggatgacgt tggagacgtt tggaaggaag gaagg                    35
240 <210> SEQ ID NO: 21
241 <211> LENGTH: 35
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Artificial sequence
248 <400> SEQUENCE: 21
249 aggatgagct tggagagtct tggaaggaag gaagg                    35
```

**VERIFICATION SUMMARY**
PATENT APPLICATION:   US/10/538,129

DATE: 06/16/2005
TIME: 10:23:27

Input Set : **A:\PG5044 seq list.txt**
Output Set: **N:\CRF4\06162005\J538129.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date